

TNC to Transceiver Interface Diagrams

Packet Radio's most complete TNC to Radio diagrams, and illustrations on the worldwide internet. These pages are intended to support the Packet Radio users and the AX.25 digital Amateur Radio Operator. I've spent many long hours and I continue to research the latest Amateur transceiver input and output connections to insure that most, if not all, these interface drawings are correct. Please use caution as you interface your TNC and transceiver. *The caveat is; "I am not responsible for mistakes or omissions."* It is my wish that this reference material is helpful to all who use it and that it promotes a greater interest in this fun-filled hobby of PacketRadio.

Happy Packeting, es 73 de Glynn E. "Buck" Rogers Sr. K4ABT

NOTICE: Read the following as it will prove helpful later.

The mic and TNC connections pictured on these pages illustrate the connections you will encounter with most radio to TNC interfaces. Most manufacturers will apply the same pin connection scheme to their radios when using the same type mic (number of pins) connector. For instance, most all models of ALINCO transceivers which have 8 pin Mic connectors will use the same pin connections; *e.g. Pin 1 = AFSK IN, Pin 2 = PTT, Pin 8 = Ground for PTT, and Pin 7 = Shield.* Receive audio is usually taken from the External speaker (*in most transceivers, a 3.5 millimeter plug*).

One very important reminder; For best TNC DCD performance, your transceiver volume should be set between the 9 and 11 o'clock position. *I've found that too little audio (below the 9:00 O'clock setting), is not good. Likewise, too much receive audio will create distortion and will cause inconsistent decoding of Packet data.* Knowing this, we soon understand that an optimum setting for the volume control is at the *ten o'clock* position. The Squelch may be set in a similar manner, usually around 10 or 11 o'clock position... unless you have local CPU noise, whereupon, you have to govern your settings accordingly.

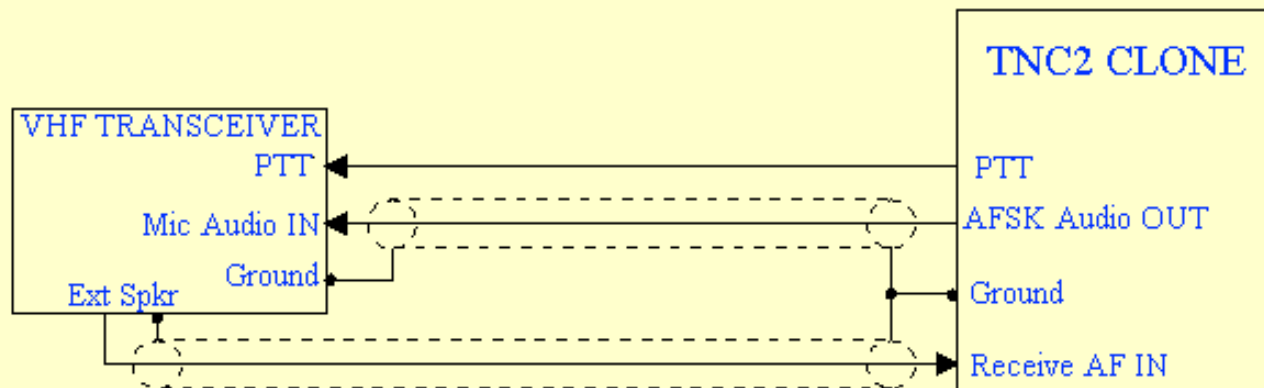
IMPORTANT NOTICE:



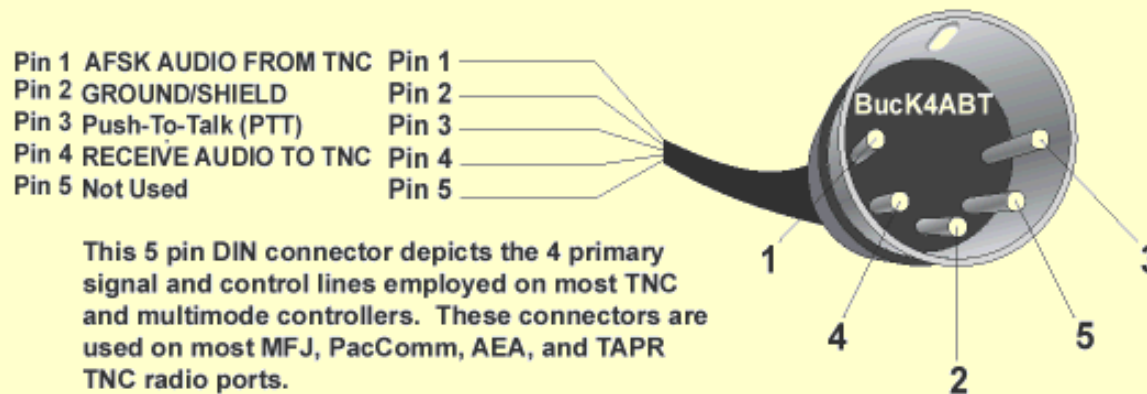
As of March 20th, 2000 I had built and drawn so many PSK31 and SSTV interfaces that I had to build a separate library for them. As a result, I've added a new page dedicated to SSTV and PSK31 sound card interface diagrams. To access this new page;

[CLICK HERE and go to: http://www.packetradio.com/psk31.htm](http://www.packetradio.com/psk31.htm)

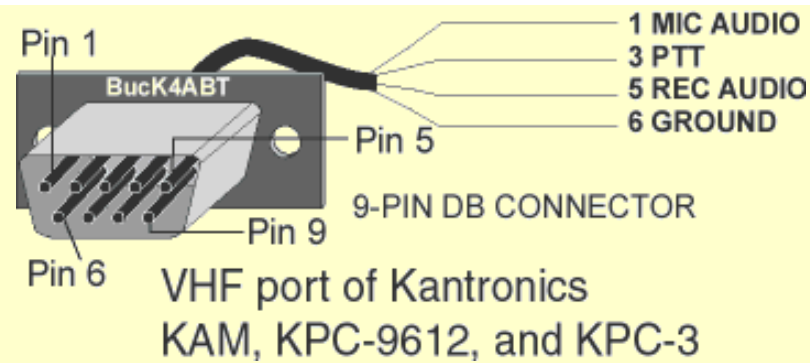
Thank you for your support, 73 de Buck Rogers K4ABT



A simplified example of a PacketRadio TNC to transceiver interface.

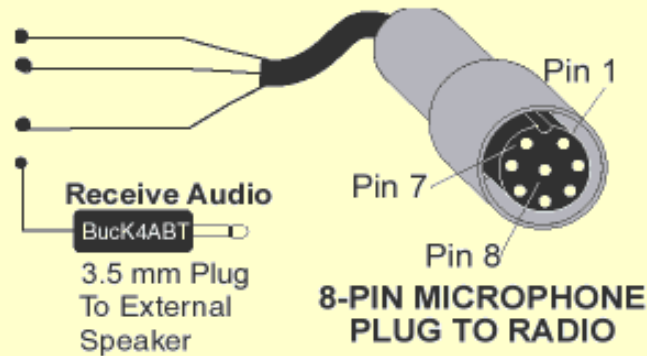


Notice the above drawing; This is one of the most popular TNC (Radio port, Input/Output (I/O)) connectors in use today. This 5 pin DIN connector is almost a "standard of the industry." Knowing the names of the signal and control wires for your TNC will save a lot of time when making your radio to TNC interface.



This drawing depicts the VHF radio port of the Kantronics KPC/KAM series. "NOTE that no connections are made to pin 7!"

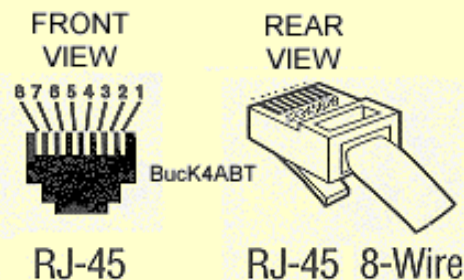
The burden is on the user to purchase the correct connector for the transceiver and computer to be used with the TNC. Determine the kind of microphone, speaker jack, and computer serial comport connectors that you're going to use.



The four (4) signal and control lines
associated with PacketRadio I/O are:

- o Transmit (AFSK) audio
- o Receive Audio
- o Push-To-Talk (PTT)
- o Ground/Shield

Shown here is a typical microphone I/O employed on many pre-1997 VHF transceivers. This drawing is shown for reference only. The numbers identified on the MIC connector are to help the user to identify the pin numbering sequence of a typical eight (8) pin mic connector.



This drawing is to illustrate the latest microphone connector being employed on most HF and VHF Amateur Radio transceivers.

NOTICE ! Interfaces shown on these pages, are tried and were successful in on-the-air-operation.... HOWEVER!...I am NOT responsible for errors, omissions, or mistakes! PROCEED AT YOUR OWN RISK!

PC and compatibles, TRS CoCo's, and Commodore *Serial and TTL Comport* interfacing

1. [PC DB9 male serial comport](#) to PacComm Tiny II and other DB9 TNC comports. connectors.
2. [RS232 DB25 to DB25 TNC](#) to Computer Interface Cable
3. [DB25 to DB9 adapter for Computers with DE9 serial comports](#) to TNCees with DB25 RS232 connectors.
4. Flow diargam of the [TNC to Radio](#) Interface
5. [The MAC comport](#)
6. [Tiny 2 TNC to MacIntosh SE, Computer](#) Interface
7. [Kantronics TTL TNC port to Commodore 64 Interface](#)
8. [MFJ, PacComm, and TNC2 Clones TTL port to Commodore 64 or VIC 20 Interface Cable](#)
9. [Tandy / RadioShack Color Computer](#) Serial port to TNC Interface



[For PSK31 Sound Card to HF Transceiver interface diagrams, CLICK HERE!](#)

In the listing below, Point to, and Click On an interface description to view the related diagram.

ALINCO transceivers to various TNC

10. [ALINCO Transceivers equipped with 8 pin, screw-type, Microphone connectors.](#)
[This diagram covers the Kantronics KAM, KPC-3, KPC-9612, KPC-2400, AEA PK-900, PK-96, PK-12, PK-232, and most TNCees with 5 pin DIN radio ports \(MFJ-1270, MFJ-1278, PacComm, Tapr TNC2\)... etc](#)
11. [ALINCO DR-140 and Alinco transceivers with RJ-45 modular, 8 pin, Microphone connectors.](#)
[This diagram covers most TNCees with 5 pin DIN radio ports \(MFJ-1270, MFJ-1278, PacComm, Tapr TNC2\)... etc](#)
12. [ALINCO DJ F1 to PacComm "HandiPacket" TNC](#)

13. [ALINCO DR-1200 to AEA PK-88.](#)
14. [ALINCO DR-110, DR-112, DR-1200 and most **ALINCO 8 pin standard MIC I/O to Kantronics \(9 pin VHF port\)**, KAM/Plus, KPC3, and 1200 baud port of the KPC9612.](#)
15. [ALINCO DJ 120 to MFJ or PacComm \(TNC2\)](#)
16. [ALINCO DR-150 to MFJ-1270CQ Turbo \(Both, 1200 and 9600 bauds\).](#)
17. [The **Kantronics \(HF port\)**, KAM/Plus, to the ALINCO DX-70TH.](#)
18. [The Kantronics \(9 pin VHF port\), KAM/Plus, KPC3, **KPC9612 to the ALINCO DR-150**](#)
19. [**ALINCO** 8 PIN MIC connectors to TNC2 Interface](#)
20. [AEA PK-232 to ALINCO DR-590 Twin-Band](#)
21. [Alinco DR-590 to AEA PK-232](#)
22. [Alinco DJ-F1 HandHeld to MFJ-1270B/C, AEA PK-900 or PacComm Tiny2](#)
23. [Alinco 8 pin Mic I/O to BayCom](#)
24. [Alinco 8 pin Mic I/O to BayPac BP-2 and BP-2M](#)
25. [CABLE for Alinco transceivers with modular \(RJ-45, 8 pin\) MIC port for 1200 baud interface to Kantronics; KAM \(VHF\), KPC-9612 \(1200 baud port\) or KPC-3 DE9 radio port.](#)
26. [CABLE No. 5086x; For **Alinco and Kenwood radios with 8 pin MIC** connector. Receive audio is from 3.5mm Ext Spkr jack. **Interface; AEA PK-232.**](#)
27. [CABLE No. 5022; For **Alinco and "Standard"** hand-held radios with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors. **Interface; TNC2** and compatible 5 pin DIN, TNC connectors.](#)
28. [CABLE No. 5022x; For **Alinco and "Standard"** hand-held radios with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors. **Interface; PK-232, 5 pin inline mini connector.**](#)
29. [CABLE No. 5028yv; For **ALINCO, and Standard hand-held radios** interface requiring inline resistor and capacitor to enable PTT and MIC I/O. For the HT with two jacks \(2.5mm and 3.5mm\), microphone/Ext Spkr connectors. **Interface; KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.**](#)
30. [CABLE No. 5086; For **Alinco and Kenwood radios with 8 pin MIC** connector. \(see note on drawing\) **Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.**](#)
31. [Just in case I overlooked one of the ALINCO transceivers to your TNC/KPC; Check Here, **MORE; ALINCO to TNC drawings.**](#)

ADI transceivers to various TNC

32. [ADI 8 Pin Mic to MFJ-1270C.](#)
 33. [ADI 8 Pin Mic to AEA PK-232 Multimode controller.](#)
 34. [ADI 8 pin Mic to DRSI PC*PacketAdapter.](#)
 35. [ADI 8 pin Mic to Kantronics KAM \(VHF port\), KPC-9612\(1200 baud port\), and KPC-3.](#)
 36. [ADI AT600D to MFJ-1270C or PacComm Tiny II 1200 Baud Radio port.](#)
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AZDEN transceivers to various TNC

37. [Early AZDEN 2000, 3000 and AZDEN transceivers with 12 pin MIC I/O to Kantronics KAM, KPC-3, and KPC-9612 \(VHF port\).](#)
38. [AZDEN 4000 w/8 PIN Mic to Kantronics KAM \(VHF port\), KPC-3, and KPC-9612 \(1200 baud port\).](#)
39. [AZDEN 2000 & 3000 transceivers with 12 pin MIC I/O to TNC-2 \(MFJ, PcaComm, AEA\) and TNCees with 5 pin DIN radio ports.](#)
40. [AZDEN 5000, 6000, and early 7000 TNC Interface](#)
41. [AZDEN PCS-9600D to MFJ-1270CQ/Turbo TNC. This combo operates both 1200 and 9600 bauds.](#)
42. [Azden 4000 interfaced to the PacComm "Handi-Packet" TNC.](#)
43. [AZDEN UHF 9600 Baud-Ready PCS-9600D interfaced to the Kantronics KPC-9612 TNC](#)
44. [CABLE No. 5060; For the Azden, Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port. Interface; TNC2 and compatible 5 pin DIN, TNC connectors. *READ NOTES ON DRAWING.](#)
45. [CABLE No. 5060yq; For the Azden, Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port. Interface; Kantronics KPC-9612 9600 baud port.](#)
46. [CABLE No. 5060yv; For Azden, Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port. Interface; KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.](#)

DRAKE transceivers to various TNC

47. [DRAKE TR-7, TR-22, TR-33, and UV-3 interface to Kantronics KAM vhf port, KPC-3, and KPC-9612, 1200 baud ports.](#)
48. [DRAKE TR-7 interface to Kantronics KAM HF port.](#)

Com-NET - ERICSSON, GE transceivers to various TNC

49. [GE DELTA S/SX modification and interface for PacketRadio use.](#)
50. [Com-NET/ERICSSON, DELTA S or SX modified for 9600 baud applications](#) to Kantronics KPC-9612, 15 pin, 9600 baud port (2).
51. [ERICSSON/GE KPC-300/400 5 Watt HandHeld VHF or UHF transceivers](#) to MFJ-1270"B" or 1270CQ/Turbo TNC
52. [ERICSSON/GE Phoenix](#) to MFJ-1270CQ/Turbo TNC
53. [Com-NET/ERICSSON, GE MVP](#) to TNC Interface

ICOM transceivers to various TNC

54. [ICOM 8 pin screw-on, MIC connectors](#)
[This diagram covers the; AEA PK-900, PK-96, PK-12, PK-232, Kantronics KAM, KPC-3, KPC-9612, KPC-2400, MFJ-1270, MFJ-1278, PacComm, Tapr TNC2... etc.](#)
55. [ICOM Transceivers equipped with RJ-45 modular Microphone connectors.](#)
[This diagram covers the Kantronics KAM, KPC-3, KPC-9612, KPC-2400, AEA PK-900, PK-96, PK-12, PK-232, and most TNCees with 5 pin DIN radio ports \(MFJ-1270, MFJ-1278, PacComm, Tapr TNC2\)... etc](#)

56. **ICOM radios with the 8 pin DIN ACCESSORY port;** IC-725, 726, 728, 729, 735, 736, 737, 737A, 738, 756, 765, 775DSP, 781...etc. (*See notes on drawing).
This diagram covers the; AEA PK-900, PK-96, PK-12, PK-232, Kantronics KAM, KPC-3, KPC-9612, KPC-2400, MFJ-1270, MFJ-1278, PacComm, Tapr TNC2... etc.
57. **ICOM** Transceivers and Hand-Held to TNC2.
58. **Icom IC 22A to KPC-3** and Kantronics KAM & KPC-9612 VHF ports.
59. **ICOM HandHelds with 2.5mm and 3.5mm MIC/ExtSpkr jacks to KANTRONICS KPC/KAM**
60. **ICOM IC-207 to MFJ-1270CQ Turbo (Both 1200 and 9600 baud port interface).**
61. ICOM IC-746, 756, and 706H's Accessory (ACC1) port (for HF use) to MFJ-1278 MultiMode
62. ICOM IC-706 to RJ-45 Mic port for 1200 baud operation.
63. ICOM IC-2100 to MFJ-1270C. 1200 baud I/O.
64. **ICOM IC-281 RJ45 MIC I/O to MFJ-1270C or X-1J4 TheNET node.**
65. **ICOM IC-281 to MFJ-1270CQ Turbo 300/1200/9600 baud TNC** (Icom 281 both ports, 1200 and 9600 baud).
66. **ICOM IC-281 to TimeWave/AEA PK-96** (two ports, 1200 and 9600 baud)
67. PK-88 (8 pin) to ICOM 8 PIN MIC
68. ICOMs with 8 pin MIC connectors to TNC2 clones.
69. **ICOM 8 pin MIC to KANTRONICS KPC and KAM.**
70. Icom IC-706 to AEA PK-87 TNC2.
71. **ICOM Radios; IC-725, 726, 728, 729, 735, 736, 737, 737A, 738, 756, 765, 775DSP, 781,** and ICOM radios with the 8 pin DIN ACCESSORY port.
(*See notes on drawing).
Interface; TNC2 and compatible 5 pin DIN, TNC connectors.
72. **ICOM Radios; IC-725, 726, 728, 729, 735, 736, 737, 737A, 738, 756, 765, 775DSP, 781,** and ICOM radios with the 8 pin DIN ACCESSORY port.
(*See notes on drawing).
Interface; KAM and KAM+ HF PORT, 8 pin DIN, connector.
73. **ICOM VHF transceivers; IC-275, 375, 475, 575, 1275, 820H, and 821H. (*NOTE Receive audio is at pin 5).**
Interface; TNC2 and compatible 5 pin DIN, TNC connectors.
74. **ICOM Radios; IC-725, 726, 728, 729, 735, 736, 737, 737A, 738, 756, 765, 775DSP, 781, port. (*See notes on drawing).**
Interface; KANTRONICS KPC-9612, 9600 baud port.
75. **ICOM Radios; IC-725, 726, 728, 729, 735, 736, 737, 737A, 738, 756, 765, 775DSP, 781, port. (*See notes on drawing).**
Interface; KAM/KAM+ (VHF port), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.
76. **ICOM Radios; IC-706, and IC-706 MKII 13 pin Accessory port. (*See notes on drawing).**
Interface; TNC2 and compatible (Including the MFJ-1278 and PK-900) 5 pin DIN, TNC connectors.
77. **ICOM Radios; IC-706, and IC-706MKII 13 pin Accessory port. (*See notes on drawing).**
Interface; KAM/KAM+ HF port
78. **ICOM Radios; IC-706, and IC-706MKII 13 pin Accessory port. (*See notes on drawing).**
Interface; KAM/KAM+ VHF port, KPC-3, KPC-2400, and KPC-9612 1200 baud port.
79. **ICOM radios with 8 pin MIC** connector. (see note on drawing)

[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)

80. [ICOM radios with RJ-45 Modular MIC connector.](#) (see note on drawing)

[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)

81. [ICOM transceivers with 4 Pin MIC connectors.](#)

[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)

82. [ICOM radios with RJ-45 MIC connector.](#) (see note on drawing)

[Interface; AEA PK-232.](#)

83. [ICOM radios with RJ-45 Modular MIC connector.](#) (see note on drawing)

[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)

84. [ICOM radios with 8 pin MIC connector.](#) (see note on drawing)

[Interface; AEA PK-232.](#)

85. [ICOM transceivers with standard 8 pin MIC connector.](#) (see note on drawing).

[Interface; Kantronics KAM/KAM+ 8 pin DIN, HF PORT](#)

86. [ICOM transceivers with 8 pin MIC connectors.](#) (See notes on drawing).

[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)

KACHINA transceivers to various TNC

87. [KACHINA 505-DSP, HF Transceiver to MFJ-1278"B"](#)

Kantronics transceivers to various TNC

88. [Kantronics KPC-9612 Plus to Kantronics D-410 transceiver.](#)

89. [Kantronics DVR 2-2 transceiver DataPort and Mic I/O.](#)

KDK transceivers to various TNC

90. [Special PTT circuit for the KDK-240.](#)

91. [AEA PK-2232 and PK-900 MultiMode Controllers to KDK-2033](#)

92. [PacComm, MFJ-1270,74,78, or the AEA PK-96 TNC to KDK-2033](#)

93. [Kantronics KPC-3/KPC3 Plus to KDK 4 pin MIC I/O.](#)

KENWOOD transceivers to various TNC

94. [KENWOOD Transceivers equipped with 8 pin screw type Microphone connectors.](#) This diagram covers the Kantronics KAM, KPC-3, KPC-9612, KPC-2400, AEA PK-900, PK-96, PK-12, PK-232, and most TNCees with 5 pin DIN radio ports (MFJ-1270, MFJ-1278, PacComm, Tapr TNC2)... etc

95. [KENWOOD Transceivers equipped with RJ-45 modular Microphone connectors.](#)

[This diagram covers the Kantronics KAM, KPC-3, KPC-9612, KPC-2400, AEA PK-900, PK-96, PK-12, PK-232, and most TNCees with 5 pin DIN](#)

- [radio ports \(MFJ-1270, MFJ-1278, PacComm, Tapr TNC2\)... etc](#)
96. [Once upon a time, there was a TAPR TNC"1"... and I interfaced it to a Kenwood 4 pin \(7400\).](#)
 97. [The AEA PK-88 TNC interfaced to the 4 pin MIC I/O, Kenwood TR-7500 transceiver.](#)
 98. [KENWOOD Transceivers with 8 pin screw-on type MIC connector to TNC2 \(MFJ, PacComm, and TNCees with 5 pin DIN I/O radio ports\).
KENWOOD Radio Models... Including, but not limited to; .. TM-; 201, 221, 231, 241, 2530, 2550, 2570, 321, 231, 3530, 401, 421, 441, 521, 541, 621, 631, and TR-; 3200, 50, 751, 851, etc HF Txvrs with 8 pin MIC connectors... etc...](#)
 99. [The KANTRONICS KAM "HF" port interfaced to the 4 pin MIC I/O, **Kenwood** TR-2200, TR-2300, TR-7400, TS-120, TS-130, TS-490, TS-520, TS-530, TS-700, TS-820, TS-830, and TS-900 transceivers .](#)
 100. [The **Kantronics KPC-3**, KAM, and KPC-9612, 1200 baud ports to the **6 pin MIC I/O, Kenwood** TR-7600 transceiver.](#)
 101. [**Kenwood radios with round 8 pin Microphone I/O.**
Interface; Kantronics KAM/KAM+ VHF, and KPC 1200 baud port.](#)
 102. [The AEA PK-88 TNC interfaced to KENWOOD transceivers with conventional 8 pin MIC I/O.](#)
 103. [Interfacing the NEW Kenwood TH-D7A for Packet and APRS use. It has a built-in 1200 and 9600 baud TNC.](#)
 104. [Kenwood RJ-45 Mic connector to TNC Interface](#)
 105. [HF **Kenwood ACCY2** to Kantronics All Mode](#)
 106. [SIX \(6\) Pin Kenwood Mics to Kantronics Packet Communicators \(KPC\) DE9 connectors.](#)
 107. [Kenwood TM-251, Six \(6\) pin "MINI DIN" V7A to **MFJ-1270CQ Turbo**.](#)
 108. [Kenwood 732, 741, 742, 641, 941, & 942 , to AEA PK-232 1200 baud port.](#)
 109. [Kenwood 733, Six \(6\) pin "MINI DIN" DataPort to AEA PK-232 1200 baud port.](#)
 110. [Kenwood TM-251, Six \(6\) pin "MINI DIN" 1200/9600 baud ports to **Kantronics KPC-9612 9k6 port**.](#)
 111. [KENWOOD TS-450, 950, and KW ACCY2 to AEA PK-900](#)
 112. [Kenwood PG-5A, Six \(6\) pin "MINI DIN" to Kantronics KPC-3, KAM, KPC-9612 DE/DB9 1200 baud ports.](#)
 113. [KENWOOD 2700 series \(8 pin\) to DRSI PacketAdaptor *PCA](#)
 114. [Kenwood HTs with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors.
Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
 115. [Kenwood HTs with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors.
*Interface; AEA PK-232 mini 5 pin, inline connector. \(*See notes on drawing\)*](#)
 116. [Kenwood HTs with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors.
Interface; KAM VHF port, KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
 117. [Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.
*Interface; TNC2 and compatible 5 pin DIN, TNC connectors. *READ NOTES ON DRAWING.*](#)
 118. [Kenwood transceivers with 4 Pin MIC connectors.
Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
 119. [Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.
Interface; Kantronics KPC-9612 9600 baud port.](#)
 120. [Kenwood, and Yaesu radios that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.
Interface; KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.](#)

121. [Kenwood radios with 13 pin Accessory port. \(*See notes on drawing\).](#)
[Interface; TNC2 and compatible \(Including the MFJ-1278 and PK-900\) 5 pin DIN, TNC connectors.](#)
122. [Kenwood radios with 13 pin Accessory port.](#)
[Interface; KAM/KAM+ HF port](#)
123. [Kenwood radios with Modular RJ-45 MIC connector.](#)
[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
124. [Kenwood radios with RJ-45 modular MIC connector.](#)
[Interface; AEA PK-232.](#)
125. [Kenwood radios with RJ-45 modular MIC connector.](#)
[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
126. [Check here to see if I overlooked your Kenwood transceiver to TNC interface drawing.](#)

MFJ DataOnly transceivers to various TNC

127. [Interface diagram for AEA PCB-88 to MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[PCB-88 is an internal PC TNC card with DE/DB9 Radio interface connector.](#)
128. [CABLE No. 5100; For MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
129. [CABLE No. 5100x; For MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[Interface; AEA PK-232.](#)
130. [CABLE No. 5100yh; For MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[Interface; Kantronics KPC-9612 DB-15 9600 baud port.](#)
131. [CABLE No. 5100yv; For MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
132. [CABLE No. 5100z; For MFJ-8621, 31, VHF DataRadio transceivers with 5 pin DIN Data I/O connector.](#)
[Interface; AEA PK-88.](#)

MIDLAND transceivers to various TNC

133. [Midland transceivers \(13-510, etc\) with 4 Pin Mic connections to TNC](#)

MoToRoLa transceivers to various TNC

134. [MICOR to TNC Interface box is a quick and easy](#)

RadioShack transceivers to various TNC

135. [**Radio Shack** Transceivers equipped with RJ-45 modular Microphone connectors.](#)
[This diagram covers the Kantronics KAM, KPC-3, KPC-9612, KPC-2400, AEA PK-900, PK-96, PK-12, PK-232, and most TNCees with 5 pin DIN radio ports \(MFJ-1270, MFJ-1278, PacComm, Tapr TNC2\)... etc](#)
136. [Radio Shack RJ-45 to Kantronics KPCs & KAM](#)
137. [**Radio Shack hand-held** transceivers to TNC2 Interface](#)
138. [**Radio Shack HandHelds with 2.5mm and 3.5mm MIC/ExtSpkr jacks to KANTRONICS KPC/KAM**](#)
139. [**Radio Shack HandHelds with 2.5mm and 3.5mm MIC/ExtSpkr jacks to PacComm HandiPacket**](#)
140. [**RJ-45 MIC I/O of the Radio Shack** VHF Mobile to TNC Interface](#)
141. [**Radio Shack VHF transceivers with Modular RJ-45 MIC** connector. Receive audio is from 3.5mm Ext Spkr jack. **Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.**](#)
142. [**Radio Shack VHF transceivers with Modular RJ-45 MIC** connector. Receive audio is from 3.5mm Ext Spkr jack. **Interface; AEA PK-232.**](#)
143. [**Radio Shack VHF transceivers with Modular RJ-45 MIC** connector. Receive audio is from 3.5mm Ext Spkr jack. **Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.**](#)

Ten-Tec transceivers to various TNC

144. [**Ten-Tec** transceivers with 4 Pin Mic connectors to TNC Interface](#)
145. [**Ten-Tec** transceivers with quarter inch \(1/4"\) Mic connectors TNC Interface](#)

STANDARD transceivers to various TNC

146. [**STANDARD** Model C5718 "DA" transceiver 1200 baud I/O to Kantronics KPC-9612, KPC-3, and KAM DB9, "VHF" 1200 baud data port.](#)
147. [**STANDARD** Model C5718 "DA" transceiver 9600 baud port to Kantronics KPC-9612 DB15 9600 baud data port.](#)
148. [**STANDARD** HandHeld transceiver to TNC Interface](#)

UNIDEN transceivers to various TNC

149. [**UNIDEN HR-2510** to TNC2 Interface \(1200 Baud is legal above 28 MHz\).](#)

REGENCY transceivers to various TNC

150. [TNC to **Regency HR2A/B** \(An oldie, but goodie\)](#)
-

YAESU transceivers to various TNC

151. [YAESU FT-207, FT-208, and WILSON MK-II, MK-IV, WE-800 to KANTRONICS KPC/KAM](#)
152. [YAESU FT-Series with 2.5mm and 3.5mm MIC/ExtSpkr jacks to KANTRONICS KPC/KAM](#)
153. [YAESU FT-847 to TNC/TU 3.5mm Stereo Jack](#)
154. [KANTRONICS KPC-3 to YAESU FT-2600/M DB9S DataPort I/O.](#)
155. [YAESU 8 pin mic connections to TNC2](#)
156. [TNC2 Interface to YAESU hand-held transceivers](#)
157. [YAESU mobile transceivers to TNC Interface](#)
158. [YAESU 747 HF Transceiver to AEA/TimeWave DSP-2232 MultiMode DSP Controller](#)
159. [YAESU 757 HF Transceiver to AEA/TimeWave DSP-2232 MultiMode DSP Controller](#)
160. [YAESU 757 and 767 HF Transceiver to AEA PK-232 MultiMode Controller](#)
161. [YAESU 747 and 757 HF Transceivers to Kantronics KAM All Mode Controller \(300 baud\) HF port.](#)
162. [YAESU FT-10 and FT-20 VHF and UHF Hand-Held transceivers to 5 pin DIN TNC.](#)
163. [YAESU FT-2500 2 Meter transceiver RJ-45 MIC port to 5 pin DIN TNC](#)
164. [YAESU FT-2500 2 Meter transceiver RJ-45 MIC port to de9 port of KAM & KPC](#)
165. [Yaesu transceivers with 8 pin MIC connectors.](#)
[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
166. [Yaesu transceivers with RJ-45 S, MIC connectors.](#)
[Interface; MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.](#)
167. [Yaesu transceivers with RJ-45 S, MIC connectors.](#)
[Interface; AEA PK-232.](#)
168. [Yaesu transceivers with RJ-45 S, MIC connectors.](#)
[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
169. [Yaesu transceivers with 8 pin MIC connectors. Uses Ext Spkr Jack for receive audio.](#)
[Interface; AEA PK-232.](#)
170. [Yaesu transceivers with 8 pin MIC connectors.](#)
[Interface; Kantronics KAM/KAM+ 8 pin DIN, HF PORT](#)
171. [Yaesu transceivers with 8 pin MIC connectors.](#)
[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
172. [Yaesu radios with 8 pin MIC connector. Receive audio is from 3.5mm Ext Spkr jack.](#)
[Interface; Kantronics KAM/KAM+ 8 pin DIN, HF PORT](#)
173. [Yaesu transceivers with 8 pin MIC connectors. Receive audio is from 3.5mm Ext Spkr jack.](#)
[Interface; Kantronics KAM/KAM+ \(VHF port\), KPC-3, KPC-2400, and KPC-9612 1200 baud port.](#)
174. [YAESU FT-3000M 1200 and 9600 baud interface to MFJ-1270CQ Turbo, 5 pin DIN TNC.](#)
175. [YAESU FT-51R Dual Band HandHeld transceiver to 5 pin DIN TNC.](#)
176. [YAESU FT-8000R Dual Band Mobile transceiver 1200 and 9600 baud interface to MFJ-1270CQ Turbo.](#)

177. [YAESU FT-8100R Dual Band Mobile transceiver 1200 and 9600 baud interface to MFJ-1270CQ Turbo.](#)
178. [YAESU VX-1R "Ultra-Compact" Dual-Band HandHeld transceiver to 5 pin DIN TNC.](#)
179. [YAESU FT-847 HF/VHF/UHF multimode \(1200 & 9600 baud\) transceiver to the MFJ-1278B MultiMode data controller.](#)
180. [YAESU FT-920, FT-990, FT-1000MP, FT-840, FT-890, FT-747, etc. Transceiver Interface diagram using the 5 pin DIN 'Packet and Data I/O' to TNC with 5 pin DIN port.](#)
181. [AEA PK-232 MultiMode Controller to the YAESU FT-920 HF transceiver 5 pin DIN DataPort.](#)
182. [**Yaesu hand-held radios with the single pin microphone connector** similar to the FT-50R and FT-50RD.](#)
[**Interface;**](#) TNC2 and compatibles with 5 pin DIN ports.
183. [**For Yaesu hand-held radios with the single pin microphone connector** similar to the FT-50R and FT-50RD.](#)
[**Interface;**](#) Kantronics KAM and KAM + VHF port, The KPC-3, KPC-2400, and KPC-9612 1200 baud ports.
184. [**Yaesu, Radio Shack, and ICOM hand-held radios** with dual \(2.5mm and 3.5mm\) pin microphone/Ext Spkr connectors.](#)
[**Interface;**](#) TNC2 and compatible 5 pin DIN, TNC connectors. *READ NOTES ON DRAWING.
185. [**Yaesu, Radio Shack, and ICOM hand-held radios** interfaced to some 5 pin DIN TNC that require inline resistor and capacitor to enable PTT and MIC I/O. For the HT with two jacks \(2.5mm and 3.5mm\), microphone/Ext Spkr connectors.](#)
[**Interface;**](#) TNC2 and compatible 5 pin DIN, TNC connectors. *READ NOTES ON DRAWING.
186. [**Yaesu, Radio Shack, and ICOM hand-held radios** interfaced to the PK-232 and that require inline resistor and capacitor to enable PTT and MIC I/O. For the HT with two jacks \(2.5mm and 3.5mm\), microphone/Ext Spkr connectors.](#)
[**Interface;**](#) AEA PK-232 w/5 pin, inline mini connectors.
187. [**Yaesu FT-100 and radios** with 6 pin, *Mini-DIN*, 1200 and 9600 baud data port.](#)
[**Interface;**](#) to MFJ-1270C, MFJ-1270CQ Turbo, and MFJ-1278B and other TNC2 clones with 5 pin DIN radio ports
188. [**Yaesu, Radio Shack, and ICOM hand-held radios** that require an inline resistor and capacitor to enable PTT and MIC I/O. For the HT with two jacks \(2.5mm and 3.5mm\), microphone/Ext Spkr connectors.](#)
[**Interface;**](#) KAM/KAM+ (VHF port), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.
189. [**Yaesu 3000M, 8000R, 8100R and transceivers** that employ the ISO standards, 6 pin, Mini-DIN, 1200 and 9600 baud data port.](#)
[**Interface;**](#) AEA PK-232, 1200 baud data Port 1. *READ NOTES ON DRAWING.
190. [**Azden, Kenwood, and Yaesu radios** that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.](#)
[**Interface;**](#) TNC2 and compatible 5 pin DIN, TNC connectors. *READ NOTES ON DRAWING.
191. [**Azden, Kenwood, and Yaesu radios** that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.](#)
[**Interface;**](#) Kantronics KPC-9612 9600 baud port.
192. [**Yaesu radios** that have the 6 pin, Mini-DIN, 1200 and 9600 baud data port.](#)
[**Interface;**](#) KAM/KAM+ (VHF port), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.
193. [**Yaesu transceivers with 4 Pin MIC connectors.**](#)
[**Interface;**](#) MFJ-1270, 1274, 1278, some PacComs, AEA PK-12, PK-96, PK-900, and DSP-232.
194. [**Some Yaesu transceivers with RJ-45 MIC I/O were wired using this connector configuration.**](#)
195. [**Yaesu radios with 7 pin, Microphone port.**](#)
[**Interface;**](#) to KAM/KAM+ (VHF port), KPC-3, KPC-2400, and KPC-9612 1200 baud ports.
[**NOTE: Receive AF is available at MIC pin 5, and alternate Receive Audio source is from *Ext Spkr*.**](#)

Miscellaneous Cables and connector configurations.

196. [CABLE No. 5082; Numbered/prewired 8 pin Standard MIC connector.](#)
197. [CABLE No. 5106; Prewired/Numbered/ColorCoded; 6 Pin MINI DIN connector and cable..](#)
198. [CABLE No. 5205; Numbered/prewired; 5 Pin DIN connector and cable.](#)
199. [CABLE No. 5208; Prewired/Numbered/ColorCoded; 8 Pin DIN connector and cable.](#)
200. [CABLE No. 5213; Prewired/Numbered/ColorCoded; 13 Pin DIN connector and cable.](#)
201. [CABLE No. 5220; Prewired/ColorCoded; 3.5mm; Tip, Ring 1, RING 2, and SLEEVE \(hard to find\), connector and cable.](#)
202. [CABLE No. 5222; Prewired/ColorCoded 2.5mm and 3.5 mm connector and cable.](#)
203. [CABLE No. 5224; Prewired 2.5mm and 3.5 mm \(Fits ICOM, Radio Shack, Alinco 560 etc.. HTs; connector and cable.](#)
204. [CABLE No. 5226; Prewired 2.5mm and 3.5 mm \(Fits Kenwood HT \(except 2500\) connector and cable](#)
205. [CABLE No. 5268; Prewired/Numbered/ColorCoded RJ-45 Modular connector.](#)
206. [CABLE No. 8025b; Six \(6\) foot long, six conductor, Shielded, 5 pin DIN, Male to Male cable.](#)

Many of the cables I have illustrated on this page are available 'READY-MADE' from *MFJ ENTERPRISES INC; Orderline is 1.800.647.1800*

Don't stop here! There's more, much more.

[CLICK HERE to view many more TNC to RADIO interface drawings... ALL IN ONE PAGE!](#)

[CLICK HERE to view TNC to COMPUTER interface drawings... ALL IN ONE PAGE!](#)

AND THERE ARE STILL MORE BELOW!

The following interface connections are associated with TNCees which use the popular five (5) pin DIN radio port.

See the *connector key* below this table.

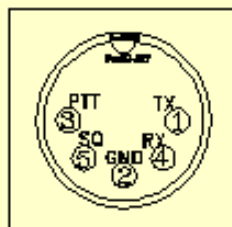
Transceiver Mfg	Radio Connector	TX AFSK Pin 1	Ground/ Shield Pin 2	Push-To- Talk Pin 3	Receive AF Pin 4	Ext CD Pin 5

ADI	8PIN	Pin 1	Pin 8	Pin 2	Ext Spkr	
Alinco	8 PIN	PIN 1	PIN 8	PIN 2	Ext Spkr	
Azden	6 PIN mini DIN	PIN 1	PIN 2	PIN 3	PIN 5	Ext CD PIN 6
Azden	8 PIN	PIN 1	PIN 2	PIN 7	Ext Spkr	
Drake	4 PIN	PIN 1	PIN 3 / 4	PIN 2	Ext Spkr	
ERICSSON/GE MVP	4 PIN	PIN 2	PIN 1	PIN 3	PIN 4	
Icom	4 PIN	PIN 1	PIN 4	PIN 2	Ext Spkr	
Icom	8 PIN	PIN 1	PIN 6	PIN 5	PIN 8	
Icom	RJ-45	PIN 6	PIN 7	PIN 4	PIN 3	
Icom	8 PIN DIN (Acc)	PIN 4	PIN 2	PIN 3	PIN 5	Ext CD PIN 6
Icom	13 PIN DIN (Acc)	Pin 11	Pin 2	Pin 3	Pin 12	Ext CD PIN 13
Kachina 505	DB25/ACC1	PIN 17	PIN 14	PIN 18	PIN 16	
KDK	6 PIN	PIN 5	PIN 6	PIN 4	Ext Spkr	
Kenwood	4 PIN	PIN 1	PIN 4	PIN 2	Ext Spkr	
Kenwood	6 PIN	PIN 1	PIN 6	PIN 2	Ext Spkr	
Kenwood	6 PIN mini DIN	PIN 1	PIN 2	PIN 3	PIN 5	Ext CD PIN 6
Kenwood	8 PIN	PIN 1	PIN 8 / 7	PIN 2	Ext Spkr	
Kenwood	RJ-45	PIN 3	PIN 6	PIN 5	Pin 2	
Kenwood	13 PIN DIN	PIN 11	PIN 4	PIN 9	Pin 3	
Midland	4 PIN	PIN 1	PIN 2	PIN 4	Ext Spkr	
Radio Shack	RJ-45	PIN 5	PIN 2	PIN 6	Ext Spkr	
Regency HR-2	1/4" Stereo	Tip	Sleeve	Ring	Ext Spkr	
Ten-Tec	1/4" Stereo	Ring	Sleeve	Tip	Ext Spkr	
Ten-Tec	4 PIN	PIN 1	PIN 2	PIN 3	Ext Spkr	

Uniden	5 PIN	PIN 1	PIN 2	PIN 3	Ext Spkr	
Yaesu	5 PIN DIN	PIN 1	PIN 2	PIN 3	PIN 4	Ext CD PIN 5
Yaesu	6 PIN mini DIN	PIN 1	PIN 2	PIN 3	PIN 5	Ext CD PIN 6
Yaesu	8 PIN	PIN 8	PIN 7	PIN 6	Ext Spkr	

INDEX OF CONNECTORS

(CAUTION, some connectors will vary in pin number assignment)



TNC Radio Port = 5 pin DIN (female)



3 Pin Mic



4 Pin Mic



5 Pin Mic



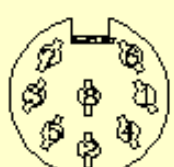
6 Pin Mic



8 Pin Mic



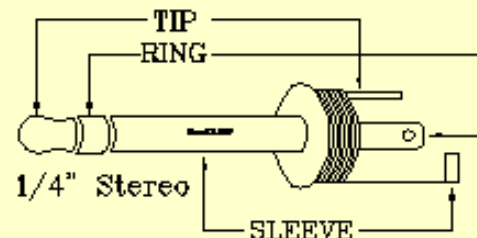
5 Pin DIN



8 Pin DIN



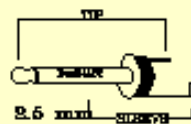
13 Pin DIN



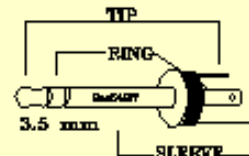
Quarter Inch Stereo (Mic)



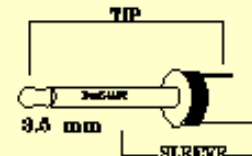
2.5 mm Stereo



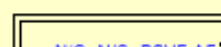
2.5 mm

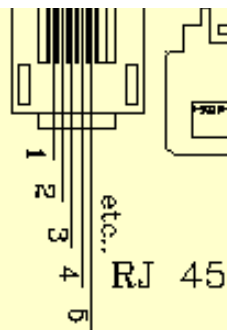
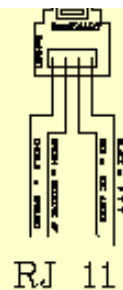


3.5 mm Stereo



3.5 mm Ext Spkr





MICROPHONE connector I/O of the GE "MVP" series. Notice that "receive" audio is present at pin 4 of the connector.

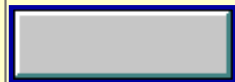
ERICSSON /// GE MVP

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